



NC/QC/YPD/SIP-05/2018-19/W5-C1

Date: 26-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

(Project*: Improvements road and drains surrounding area in Ward No. 05.)

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	168 min	Shall not be less than 30 min
2	Final setting time	284 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.04 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.59 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	29.51 N/Sq mm	Shall not be less than 27 N/Sqmm

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For Newzen Consultants Bangalore

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NC/QC/YPD/SIP-05/2018-19/W5-PCC1

Date: 26-03-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements road and drains surrounding area in Ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007)	
		% Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	54.95	0 -20	30- 70
10mm	27.40	0 -5	10- 35
4.75mm	3.25	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -III	
04.75	95.85	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.05	60-95	75-100	85-100	
01.18	74.10	30-70	55-90	75-100	
600.mic	41.00	15-34	35-59	60-79	
300.mic	24.75	5-20	8-30	12-40	
150.mic	6.95	0-10	0-10	0-10	

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NC/QC/YPD/SIP-05/2018-19/W5-C2

Date: 29-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements road and drains surrounding area in Ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	174 min	Shall not be less than 30 min
2	Final setting time	261 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.85 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	1.94 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	28.45 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/SIP-05/2018-19/W5-PCC2

Date: 29-03-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements road and drains surrounding area in Ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	68.10	0 -20	30- 70
10mm	33.65	0 -5	10- 35
4.75mm	3.85	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)- Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.75	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	80.40	60-95	75-100	85-100	
01.18	58.90	30-70	55-90	75-100	
600.mic	42.15	15-34	35-59	60-79	
300.mic	25.65	5-20	8-30	12-40	
150.mic	6.30	0-10	0-10	0-10	

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NC/QC/YPD/SIP-05/2018-19/W5-C3

Date: 03-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements road and drains surrounding area in Ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	185 min	Shall not be less than 30 min
2	Final setting time	271 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.84 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.49 mm	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	29.46 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/SIP-05/2018-19/W5-PCC3

Date: 03-04-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements road and drains surrounding area in Ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	58.95	0 - 20	30- 70
10mm	24.70	0 - 5	10- 35
4.75mm	3.55	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.65	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	85.20	60-95	75-100	85-100	
01.18	57.05	30-70	55-90	75-100	
600.mic	43.90	15-34	35-59	60-79	
300.mic	16.75	5-20	8-30	12-40	
150.mic	7.40	0-10.	0-10	0-10	

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NC/QC/YPD/SIP-05/2018-19/W5-C4

Date: 09-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements road and drains surrounding area in Ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	158 min	Shall not be less than 30 min
2	Final setting time	286 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.87 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.13 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.93 N/Sq mm	Shall not be less than 27 N/Sqmm

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Co-ordinator



NC/QC/YPD/SIP-05/2018-19/W5-FA1

Date: 09-04-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements road and drains surrounding area in Ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS:

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -II	
04.75	97.25	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	80.60	60-95	75-100	85-100	
01.18	59.05	30-70	55-90	75-100	
600. mic	42.85	15.34	35-59	60-79	
300.mic	16.70	5-20	8-30	12-40	
150.mic	7.45	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	16.35 %	-----
2	Silt Content	----	0.64 %	Not more than 8%
3	Specific Gravity	----	2.61	-----

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NC/QC/YPD/SIP-05/2018-19/W5-CA1

Date: 09-04-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements road and drains surrounding area in Ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1: SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002)	
		% Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.70	85-100	90 - 100
10 mm	29.15	0 - 20	25 - 55
4.75 mm	3.40	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	21.65 %	Not to exceed 25 %
2.	Crushing value	26.90 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/YPD/SIP-05/2018-19/W5-S1

Date: 09-04-2018

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 & 12 mm TMT Steel.

{Project*: Improvements road and drains surrounding area in Ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	10.0 mm	10.0 mm	12.0 mm	12.0 mm
02	Observed Wt/m Length Kg/m	0.632	0.567	0.891	0.834
03	Proof stress/Yield stress, f_y , N/mm ²	566.0	500.0	572.0	500.0
04	Bend/ Re bend Test	Ok	---	Ok	---
05	Percentage of Elongation, %	20.40	12.00	20.90	12.00
06	Ultimate Tensile Strength N/mm ²	651.0	545.0	674.0	545.0

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